

IN THE CLAIMS

Kindly amend the claims as shown on the attached sheets.

1. (original) A process for the preparation of methyl formate by reacting methanol with carbon monoxide at a pressure of from 0.5 to 10 MPa abs. in the presence of a metal alkoxide as catalyst in a reactor, in which a gas stream is withdrawn from the reactor, entrained methyl formate is removed from this gas stream by condensation, and all or some of the remaining gas stream is returned to the reactor as circulating-gas stream, which comprises setting a mean gas superficial velocity of from 1 to 20 cm/s in at least one region of the reactor in which the gas flows essentially in one direction, using potassium methoxide as catalyst and carrying out the reaction at a temperature of from 60 to 85°C.
2. (original) A process as claimed in claim 1, wherein a mean gas superficial velocity of from 2 to 10 cm/s is set in at least one region of the reactor in which the gas flows essentially in one direction.
3. (currently amended) A process as claimed in claim 1 either of claims 1 and 2, wherein the reaction is carried out at a concentration of catalyst employed of from 0.01 to 2 mol/kg of liquid reaction mixture.
4. (currently amended) A process as claimed in claim 1 any one of claims 1 to 3, wherein the reaction is carried out at a pressure of from 2 to 4 MPa abs.
5. (currently amended) A process as claimed in claim 1 any one of claims 1 to 4, wherein a molar ratio between the total amount of methanol fed to the reactor and the amount of freshly supplied carbon monoxide of from 1.4 to 3.3 is set.

6. (currently amended) A process as claimed in claim 1 ~~any one of claims 1 to 5~~, wherein a bubble column is employed, and this is operated under co-current conditions with respect to the feed of the methanol-containing liquid stream and the carbon monoxide-containing gas stream.
7. (currently amended) A process as claimed in claim 1 ~~any one of claims 1 to 6~~, wherein the reaction is carried out in a cascaded reactor.
8. (original) A process as claimed in claim 7, wherein the uppermost zone of the cascaded reactor is operated at a temperature of from 80 to 150 C.
9. (currently amended) A process as claimed in claim 1 ~~any one of claims 1 to 8~~, wherein the gas stream withdrawn from the reactor is separated in a rectifying column into a methyl formate-containing bottom stream and a carbon monoxide- and methyl formate-containing top stream, entrained methyl formate is removed from the top stream by condensation, and all or some of the remaining gas stream is fed back to the reactor as circulating-gas stream.

Figure 3/3:

5 Simplified process flow chart of a preferred embodiment for the preparation of methyl formate using a rectifying column with recycling of the carbon monoxide-containing circulating-gas stream and with recycling of a methanol-containing liquid stream.

